

IN THE CLAIMS:

Please amend claim 6 and add new claims 60-72.

186/ (Amended) A method of authenticating documents comprising the steps of:
illuminating a document with ultraviolet light;
detecting ultraviolet light reflected by said document; and
determining the authenticity of said document based upon a comparison of the
ultraviolet light reflected from said bill with the ultraviolet light reflected from a
genuine document illuminated with ultraviolet light; [The method of claim 5] wherein
the authenticity of said document is determined relative to genuine United States
currency and wherein a negative determination of authenticity is made regarding said
document if a relatively high amount of ultraviolet light is not reflected from said
document.

60/ (New) A method of authenticating documents comprising the steps of:
illuminating a document with ultraviolet light;
detecting ultraviolet light reflected by said document; and
determining the authenticity of said document based upon a comparison of the
ultraviolet light reflected from said bill with the ultraviolet light reflected from a
genuine document illuminated with ultraviolet light;
wherein the authenticity of said document is determined relative to genuine
United States currency and wherein a negative determination of authenticity is made

regarding said document if an amount of ultraviolet light detected by said step of detecting ultraviolet light reflected from said document does not exceed a predetermined threshold.

61. (New) The method of claim ⁶³~~60~~ wherein said step of detecting ultraviolet light reflected by said document comprises taking a number of samples of amounts of ultraviolet light reflected by said document and averaging said samples to obtain an average and wherein a negative determination of authenticity is made regarding said document if said average does not exceed a predetermined threshold.

62. (New) The method of claim ⁶³~~60~~ wherein said predetermined threshold is set such that a negative determination of authenticity is made if an amount of ultraviolet light detected by said step of detecting ultraviolet light reflected by said document is less than or equal to one-half an amount of ultraviolet light expected to be detected from a genuine United States bill.

63. (New) The method of claim ⁶³~~62~~ wherein a detector is used for said step of detecting ultraviolet light reflected by said document; wherein said detector generates an output voltage based on the amount of ultraviolet light detected; and wherein a negative determination of authenticity is made if the voltage generated by said step of detecting ultraviolet light reflected by said document is less than or equal to one-half a voltage expected for a genuine United States bill.

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64. (New) The method of claim 13 wherein a positive determination of authenticity is made regarding said document only if an amount of ultraviolet light reflected from said document exceeds a first predetermined threshold and an amount of visible light emitted from said document is below a second predetermined threshold.

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65. (New) The method of claim 13 wherein the authenticity of said document is determined relative to genuine United States currency and wherein a positive determination of authenticity is made regarding said document only if an amount of ultraviolet light reflected from said document exceeds a first predetermined threshold and an amount of visible light emitted from said document is below a second predetermined threshold.

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66. (New) The method of claim 13 wherein said step of detecting ultraviolet light reflected by said document comprises taking a number of samples of amounts of ultraviolet light reflected by said document and averaging said samples to obtain a reflected ultraviolet average and wherein said step of detecting visible light emitted from said document comprises taking a number of samples of amounts of visible light emitted from said document; and wherein a negative determination of authenticity is made regarding said document if either said reflected ultraviolet average does not

exceed a first predetermined threshold or any of said samples of the amount of visible light exceeds a second predetermined threshold.

67. A device for authenticating documents comprising:

an ultraviolet light source for illuminating a document to be tested;

an ultraviolet light detector for generating an output signal responsive to ultraviolet light reflected by said document; and

a signal processor for receiving said ultraviolet detector output signal and determining the authenticity of said document based upon said output signal;

wherein the authenticity of said document is determined relative to genuine currency and wherein a negative determination of authenticity is made regarding said document if an amount of ultraviolet light reflected from said document does not exceed a predetermined threshold.

68. The device of claim 67 wherein the authenticity of said document is determined relative to genuine United States currency.

69. (New) The device of claim 68 wherein said ultraviolet light detector takes a number of samples of amounts of ultraviolet light reflected by said document and generates a number of output signals; wherein said signal processor averages said number of output signals to obtain an average and wherein a negative determination

of authenticity is made regarding said document if said average does not exceed a predetermined threshold.

70. (New) The device of claim 67 wherein said ultraviolet light detector takes a number of samples of amounts of ultraviolet light reflected by said document and generates a number of output signals; wherein said signal processor averages said number of output signals to obtain an average and wherein a negative determination of authenticity is made regarding said document if said average does not exceed a predetermined threshold.

71. (New) The device of claim 67 wherein said predetermined threshold is set such that a negative determination of authenticity is made if an amount of ultraviolet light detected by said ultraviolet light detector is less than or equal to one-half an amount of ultraviolet light expected to be detected from a genuine United States bill.

72. (New) The device of claim 71 wherein said ultraviolet light detector generates an output voltage based on the amount of ultraviolet light detected; and wherein a negative determination of authenticity is made if the voltage generated is less than or equal to one-half a voltage expected for a genuine United States bill.

REMARKS

Claim 6 has been amended, and new claims 60-72 have been added.